



AirTegrity™
Video Surveillance Solution



Video Surveillance and Broadband Wireless Access

As IP based surveillance systems consisting of cameras and digital video servers (DVSs) replace traditional analogue technology, high speed networks are increasingly used to support IP based systems. Sending video over a computer network yields significant savings by using an existing computer network to monitor a remote site. By using a high-speed wireless network, Homeland Security, public safety and industrial security systems can be deployed faster at lower costs than they can using structured network cabling.

Video Backhaul with Wireless

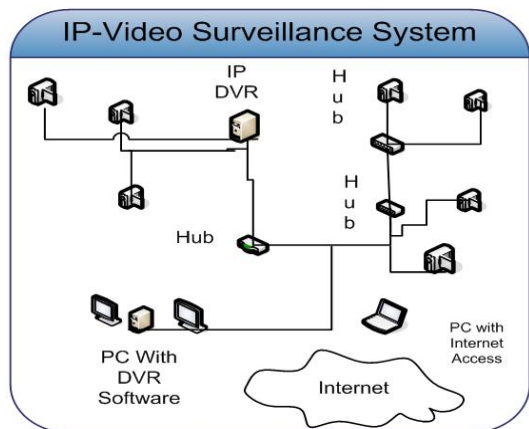
An AirTegrity smart network provides the bandwidth, reliability and security to monitor live video streams from video cameras in remote locations from a central command center, laptop or PC anywhere internet access exists. Independent of wires, cameras can be located conveniently and cost-effectively almost anywhere with a point to point or point to multi-point wireless network. Without having to home run cabling back to command center, the size of security system is limitless. An AirTegrity smart network allows for deployment of a large scale network in a matter days as opposed to weeks or months, at a fraction of the cost of an IP system using traditional structured cabling.

Homeland Security

An AirTegrity Smart Network facilitates large scale Homeland Security video surveillance projects for ports, bridges, military bases public stadiums, special events and other high profile targets. The system can provide a virtual infrastructure to provide real time video transmission to public safety first responders and mobile command centers. It can also enhance inter-operability by providing shared data to multiple public agencies.

Reduced Cost of Deployment

As an integral component of the AirTegrity family of secure wireless broadband access products, the 3105 series introduces a new paradigm in product capability by combining specific features and functionality from Wireless, Wire line, LAN, VPN, VoIP, Security, and Management products into a single cohesive solution negating the need for multiple devices and technologies to be configured into the network. This facilitates a dramatic shift in capital and operating expenditures, significantly reducing the cost of deployment.



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The AirTegrity Smart Network

The AirTegrity family of products is a series of plug and play modules including a perimeter base station, sector controllers, relay subscriber stations and customer premise equipment (CPE). AirTegrity modules are capable of operating in both licensed and unlicensed frequencies enabling service providers to operate reliably in dense RF environments while supporting bandwidth and distance requirements of specific points and subscribers. AirTegrity's dual radio modules (3100 series) function in a relay or backhaul to hotspot capacity enabling networks to be configured around line of site obstacles or provide 802.11a/b/g WiFi access to numerous users with 802.11 WiFi compliant devices. AirTegrity high speed networks support data rates up to 72Mbps ensuring delivery of streaming full motion video traffic. In addition powerful routing protocols including Digital Vector Multicast Routing Protocol (DVMP) enable routing of video traffic to specific points in a network with a minimum of bandwidth degradation. This conservation of bandwidth enhances reliability of links carrying video traffic. AirTegrity modules support 3DES and AES encryption ensuring network security.

The AirTegrity Family of Solutions

AirTegrity™ Wireless is a market leader providing a secure wireless broadband platform that encompasses all networking and security requirements for the delivery of voice and data services in a single cohesive product. AirTegrity award winning wireless modules operate in both licensed and unlicensed frequencies, an AirTegrity™ smart network dramatically reduces the cost of network deployment, ownership and management by integrating Multi-Channel Radio and Antenna technology with powerful routing, switching and security functions into each AirTegrity™ system.

- Residential or business customer aggregation
- Enterprise/Campus Inter-building Connectivity
- Wireless Backhaul/Circuit Replacement
- Public Hot Spots
- Public Safety Networks

Secure, Bandwidth-Managed Wireless Networks

Wireless links are managed and bandwidth usage is controlled over routed links using powerful, flexible traffic shaping and bandwidth management software. Security is assured with AirTegrity integrated IPsec based VPN functionality via hardware assisted encryption engine and supporting the strongest commercially available encryption techniques including AES. VPN functionality is supported on all wireless and wire line links and supports a total throughput up to 80 Mbps. Subscriber access rates are configurable and are allocated in 64 Kbps blocks, and powerful firewall support is available on all links.

Voice over IP

Toll quality voice is supported via AirTegrity industry standard SIP implementation and STUN (Simple Traversal of UDP through Network Address Translation) server (RFC 3489), an implementation of the STUN protocol that enables SIP-based communication through Firewalls. The STUN protocol enables a SIP client to discover whether it is behind a NAT, to determine the type of NAT, and to cleanly traverse it while maintaining your Firewall protection.

Non-Line of Sight (NLOS) and Meshed Solutions

The entire AirTegrity product family was designed to support Non Line of Sight (NLOS) connectivity via AirTegrity RamJet™ technology, eliminating the need for each host to have a direct line of sight access to the 4000 acting as the perimeter base station. In addition, the 4000 series supports auto-configuration of all AirTegrity Sector Controller, Relay Subscriber Station and CPE devices greatly simplifying system installation and initial configurations.